

# Index for Volume 49 (1978)

This index is composed of the following three subindexes: I. Bibliographical Index; II. Author Index; and III. Topic Index.

Entries in the bibliographical index have been indexed by the last name of the author or, in the case of multiple authors, by the last name of the senior (first) author. Reference information includes the name(s) of the author(s), title of the article, the month of publication, and the page on which it begins.

The author index cites the name of each author included in the volume, followed by the month(s) of publication and the page(s) on which the article(s) begin.

In the topic index, each article is listed under those important subjects about which the article provides information. The numbers refer to the initial page of the article(s) in which the topic is discussed.

## I. BIBLIOGRAPHICAL INDEX

- AAHPER policy statement regarding protection of human subjects. Mar. 103.
- Anshel, Mark H., and Marisi, Dan Q. Effect of music and rhythm on physical performance. May 109.
- Ansgorge, Charles J.; Scheer, John K.; Laub, Jan; and Howard, James. Bias in judging women's gymnastics induced by expectations of within-team order. Dec. 399.
- Baker, John A. W., and Wilson, Barry D. The effect of tennis racket stiffness and string tension on ball velocity after impact. Oct. 255.
- Bain, Linda L. Differences in values implicit in teaching and coaching behaviors. Mar. 5.
- Baumgartner, Ted A. Modified pull-up test. Mar. 80.
- Beaudin, Paula; Zapiec, Chuck; and Montgomery, David. Heart rate response and lactic acid concentration in squash players. Dec. 406.
- Ben-Sira, David; Stoner, Lela June; and Luedtke, David. A simple procedure for event marking when filming with one or two cameras. Oct. 381.
- Bird, Anne Marie, and Brame, Judith M. Self versus team attributions: a test of the "I'm OK, but the team's so-so" phenomenon. Oct. 260.
- Blanke, Daniel J. Rotational strength and flexibility of the knee following pes anserinus transplant surgery. Dec. 413.
- Broadhead, Geoffrey D., and Rarick, G. Lawrence. Family characteristics and gross motor traits in handicapped children. Dec. 421.
- Christensen, Charlene E.; Milner, Keith; and Christensen, James E. An analysis of faculty perceptions of leadership qualities of male and female physical education departments. Oct. 269.
- Clarke, David H. The role of contraction duration in muscular fatigue. Mar. 12.
- Cooter, G. Rankin, and Mowbray, Kathy W. Effects of iron supplementation and activity on serum iron depletion and hemoglobin levels in female athletes. May 114.
- Cox, Richard H. Choice response time speeds of the slide and cross-over steps as used in volleyball. Dec. 430.
- Coyle, Edward F.; Bell, Samuel; Costill, David L.; and Fink, William J. Skeletal muscle fiber characteristics of world class shot-putters. Oct. 278.
- Coyle, Edward F.; Costill, David L.; Fink, William J.; and Hoopes, David G. Gastric emptying rates for selected athletic drinks. May 119.
- Dainis, A. Construction of a film analyzer and digitizer. Dec. 542.
- Dickinson, John. Retention of intentional and incidental motor learning. Dec. 437.
- Dishman, Rod K. Aerobic power, estimation of physical ability, and attraction to physical activity. Oct. 285.
- Dolgener, Forrest A. Prediction of maximum aerobic power in untrained females. Mar. 20.
- DuBois, Paul E. Participation in sports and occupational attainment: a comparative study. Mar. 28.
- Evans, Blanche W.; Cureton, Kirk J.; and Purvis, Jamie W. Metabolic and circulatory responses to walking and jogging in water. Dec. 442.

# Index for Volume 49 (1978)

This index is composed of the following three subindexes: I. Bibliographical Index; II. Author Index; and III. Topic Index.

Entries in the bibliographical index have been indexed by the last name of the author or, in the case of multiple authors, by the last name of the senior (first) author. Reference information includes the name(s) of the author(s), title of the article, the month of publication, and the page on which it begins.

The author index cites the name of each author included in the volume, followed by the month(s) of publication and the page(s) on which the article(s) begin.

In the topic index, each article is listed under those important subjects about which the article provides information. The numbers refer to the initial page of the article(s) in which the topic is discussed.

## I. BIBLIOGRAPHICAL INDEX

- AAHPER policy statement regarding protection of human subjects. Mar. 103.
- Anshel, Mark H., and Marisi, Dan Q. Effect of music and rhythm on physical performance. May 109.
- Ansgorge, Charles J.; Scheer, John K.; Laub, Jan; and Howard, James. Bias in judging women's gymnastics induced by expectations of within-team order. Dec. 399.
- Baker, John A. W., and Wilson, Barry D. The effect of tennis racket stiffness and string tension on ball velocity after impact. Oct. 255.
- Bain, Linda L. Differences in values implicit in teaching and coaching behaviors. Mar. 5.
- Baumgartner, Ted A. Modified pull-up test. Mar. 80.
- Beaudin, Paula; Zapiec, Chuck; and Montgomery, David. Heart rate response and lactic acid concentration in squash players. Dec. 406.
- Ben-Sira, David; Stoner, Lela June; and Luedtke, David. A simple procedure for event marking when filming with one or two cameras. Oct. 381.
- Bird, Anne Marie, and Brame, Judith M. Self versus team attributions: a test of the "I'm OK, but the team's so-so" phenomenon. Oct. 260.
- Blanke, Daniel J. Rotational strength and flexibility of the knee following pes anserinus transplant surgery. Dec. 413.
- Broadhead, Geoffrey D., and Rarick, G. Lawrence. Family characteristics and gross motor traits in handicapped children. Dec. 421.
- Christensen, Charlene E.; Milner, Keith; and Christensen, James E. An analysis of faculty perceptions of leadership qualities of male and female physical education departments. Oct. 269.
- Clarke, David H. The role of contraction duration in muscular fatigue. Mar. 12.
- Cooter, G. Rankin, and Mowbray, Kathy W. Effects of iron supplementation and activity on serum iron depletion and hemoglobin levels in female athletes. May 114.
- Cox, Richard H. Choice response time speeds of the slide and cross-over steps as used in volleyball. Dec. 430.
- Coyle, Edward F.; Bell, Samuel; Costill, David L.; and Fink, William J. Skeletal muscle fiber characteristics of world class shot-putters. Oct. 278.
- Coyle, Edward F.; Costill, David L.; Fink, William J.; and Hoopes, David G. Gastric emptying rates for selected athletic drinks. May 119.
- Dainis, A. Construction of a film analyzer and digitizer. Dec. 542.
- Dickinson, John. Retention of intentional and incidental motor learning. Dec. 437.
- Dishman, Rod K. Aerobic power, estimation of physical ability, and attraction to physical activity. Oct. 285.
- Dolgener, Forrest A. Prediction of maximum aerobic power in untrained females. Mar. 20.
- DuBois, Paul E. Participation in sports and occupational attainment: a comparative study. Mar. 28.
- Evans, Blanche W.; Cureton, Kirk J.; and Purvis, Jamie W. Metabolic and circulatory responses to walking and jogging in water. Dec. 442.

- Fahey, Thomas D., and Schroeder, Richard. A load cell for hydrostatic weighing. Mar. 85.
- Falls, Harold B., and Humphrey, L. Dennis. Body type and composition differences between placers and nonplacers in an AIAW gymnastics meet. Mar. 38.
- Fellingham, Gilbert W.; Bryce, G. Rex; and Carter, Melvin W. Latin square change-over design in physical education research. May 125.
- Franklin, Barry A.; Forgac, M. Tabernik; and Hellerstein, Herman K. Accuracy of predicted marathon time: relationship of training mileage to performance. Dec. 450.
- Frekany, George A. Retention characteristics of location and distance cues in motor short-term memory. Oct. 293.
- Granzin, Kent L., and Williams, Robert H. Patterns of behavioral characteristics as indicants of recreation preferences: a canonical analysis. May 135.
- Greendorfer, Susan L., and Lewko, John H. Role of family members in sport socialization of children. May 146.
- Gutin, Bernard; Trinidad, America; Norton, Cheryl; Giles, Elizabeth; Stewart, Kerry; and Giles, Anna. Morphological and physiological factors related to endurance performance of 11- to 12-year-old girls. Mar. 44.
- Hatfield, Bradley D., and Landers, Daniel M. Observer expectancy effects upon appraisal of gross motor performance. Mar. 53.
- Haywood, Kathleen M. A note on the reliability of a depth perception measure for children. May 237.
- Heyward, Vivian and McCreary, Leslie. Comparison of the relative endurance and critical occluding tension levels of men and women. Oct. 301.
- Hosler, W. W.; Morrow, James R. Jr.; and Jackson, Andrew S. Strength, anthropometric, and speed characteristics of college women volleyball players. Oct. 385.
- Hovell, Melbourne F.; Bursick, James H.; Sharkey, Robert; and McClure, James. An evaluation of elementary students' voluntary physical activity during recess. Dec. 460.
- Igbunugo, Veronica and Gutin, Bernard. The energy cost of aerobic dancing. Oct. 308.
- Iso-Ahola, Seppo. Perceiving the causes of objective and subjective outcomes following motor performance. Mar. 62.
- Jackson, Andrew S.; Pollock, Michael L.; and Gettman, Larry R. Intertester reliability of selected skinfold and circumference measurements and percent fat estimates. Dec. 546.
- Johnson, James and Siegel, Donald. Reliability of an isokinetic movement of the knee extensors. Mar. 88.
- Katch, Victor L.; Gilliam, Thomas; and Weltman, Arthur. Active vs. passive recovery from short-term supramaximal exercise. May 153.
- Kermond, John and Konz, Stephan. Support leg loading in punt kicking. Mar. 71.
- King, Harry A. A nomogram to assist in planning surveys of small ( $n < 2,000$ ) populations. Dec. 552.
- Landers, Daniel M.; Feltz, Deborah L.; Obermeier, George E.; and Brouse, Thomas R. Socialization via interscholastic athletics: its effects on educational attainment. Dec. 475.
- Lerch, Harold A., and Welch, Paula D. A ball game played by the Florida Seminoles during the green corn festival. Mar. 91.
- Locke, Lawrence F., and Massengale, John D. Role conflict in teacher/coaches. May 162.
- Londeree, Ben R., and Forkner, Larry. Changes in  $^{40}\text{K}$  counts with exercise. Mar. 95.
- Marlowe, Mike; Algozzine, Bob; Lerch, Harold A.; and Welch, Paula D. The games analysis intervention as a method of decreasing feminine play patterns of emotionally disturbed boys. Dec. 484.
- McLaughlin, Thomas M.; Lardner, Thomas J.; and Dillman, Charles J. Kinetics of the parallel squat. May 175.
- Morrow, James R. Jr.; Jackson, Andrew S.; and Bell, John A. The function of age, sex, and body mass on distance running. Dec. 491.
- Nelson, Jack K. Motivating effects of the use of norms and goals with endurance tests. Oct. 317.
- Noland, Melody and Kearney, Jay T. Anthropometric and densitometric responses of women to specific and general exercise. Oct. 322.

- Park, Roberta J. Strong bodies, healthful regimens, and playful recreations as viewed by utopian authors of the 16th and 17th centuries. Dec. 498.
- Parkhouse, Bonnie L., and Holmen, Milton G. Action research paradigm to facilitate merging male and female athletic or physical education departments. May 228.
- Picado, Marta E. Coincidence-anticipation apparatus for a gross motor task. May 240.
- Purvis, Jamie W., and Morgan, William P. Influence of repeated maximal testing on anxiety and work capacity in college women. Dec. 512.
- Rikli, Roberta and Arnett, Beverly. Motor performance scores of volunteer versus randomly selected subjects. Oct. 329.
- Sage, George H., and Hornak, James E. Progressive speed practice in learning a continuous motor skill. May 190.
- Scanlan, Tara K. Perceptions and responses of high- and low-competitive trait-anxious males to competition. Dec. 520.
- Shapiro, Robert. Direct linear transformation method for three-dimensional cinematography. May 197.
- Singer, Robert N., and Pease, Dale. Effect of guided vs. discovery learning strategies on initial motor task learning, transfer, and retention. May 206.
- Skrinar, Gary S., and Hoffman, Shirl J. Mechanical guidance of the golf swing: the "golfer's groove" as an instructional adjunct. Oct. 335.
- Smoll, Frank L.; Smith, Ronald E.; Curtis, Bill; and Hunt, Earl. Toward a mediational model of coach-player relationships. Dec. 528.
- Snyder, Eldon E., and Spreitzer, Elmer. Socialization comparisons of adolescent female athletes and musicians. Oct. 342.
- Stamford, Bryant A.; Weltman, Arthur; and Fulco, Charles. Anaerobic threshold and cardiovascular responses during one-versus two-legged cycling. Oct. 351.
- Stamford, Bryant A.; Weltman, Arthur; Moffatt, Robert J.; and Fulco, Charles. Effects of severe prior exercise on assessment of maximal oxygen uptake during one- versus two-legged cycling. Oct. 363.
- Weltman, Arthur; Katch, Victor; Sady, Stanley; and Freedson, Patty. Onset of metabolic acidosis (anaerobic threshold) as a criterion measure of submaximum fitness. May 218.
- Widmeyer, W. Neil, and Martens, Rainer. When cohesion predicts performance outcome in sport. Oct. 372.

## II. AUTHOR INDEX

After the name of each author are the month(s) of publication and the page(s) on which the article(s) begin.

### A

Algozzine, Bob, Dec. 484.  
Anshel, Mark H., May 109.  
Ansorge, Charles J., Dec. 399.  
Arnett, Beverly, Oct. 329.

### B

Baker, John A. W., Oct. 255.  
Bain, Linda L., Mar. 5.  
Baumgartner, Ted A., Mar. 80.  
Beaudin, Paula, Dec. 406.  
Bell, John A., Dec. 491.  
Bell, Samuel, Oct. 278.  
Ben-Sira, David, Oct. 381.  
Bird, Anne Marie, Oct. 260.  
Blanke, Daniel J., Dec. 413.  
Brame, Judith M., Oct. 260.  
Broadhead, Geoffrey D., Dec. 421.  
Brouse, Thomas R., Dec. 475.  
Bryce, G. Rex, May 125.  
Bursick, James H., Dec. 460.

### C

Carter, Melvin W., May 125.  
Christensen, Charlene E., Oct. 269.  
Christensen, James E., Oct. 269.  
Clarke, David H., Mar. 12.  
Cooter, G. Rankin, May 114.  
Costill, David L., May 119, Oct. 278.  
Cox, Richard H., Dec. 430.  
Coyle, Edward F., May 119, Oct. 278.  
Cureton, Kirk J., Dec. 442.  
Curtis, Bill, Dec. 528.

### D

Dainis, A., Dec. 542.  
Dickinson, John, Dec. 437.  
Dillman, Charles J., May 175.  
Dishman, Rod K., Oct. 285.  
Dolgener, Forrest A., Mar. 20.  
DuBois, Paul E., Mar. 28.

### E

Evans, Blanche W., Dec. 442.

### F

Fahey, Thomas D., Mar. 85.  
Falls, Harold B., Mar. 38.  
Fellingham, Gilbert W., May 125.  
Feltz, Deborah L., Dec. 475.  
Fink, William J., May 119, Oct. 278.  
Forgac, M. Tabernik, Dec. 450.  
Forkner, Larry, Mar. 95.  
Franklin, Barry A., Dec. 450.  
Freedson, Patty, May 218.  
Frekany, George A., Oct. 293.  
Fulco, Charles, Oct. 351, 363.

### G

Gettman, Larry R., Dec. 546.  
Giles, Anna, Mar. 44.  
Giles, Elizabeth, Mar. 44.  
Gilliam, Thomas, May 153.  
Granzin, Kent L., May 135.  
Greendorfer, Susan L., May 146.  
Gutin, Bernard, Mar. 44, Oct. 308.

### H

Hatfield, Bradley D., Mar. 53.  
Haywood, Kathleen M., May 237.  
Hellerstein, Herman K., Dec. 450.  
Heyward, Vivian, Oct. 301.  
Hoffman, Shirl J., Oct. 335.  
Holmen, Milton G., May 228.  
Hoopes, David G., May 119.  
Hornak, James E., May 190.  
Hosler, W. W., Oct. 385.  
Hovell, Melbourne F., Dec. 460.  
Howard, James, Dec. 399.  
Humphrey, L. Dennis, Mar. 38.  
Hunt, Earl, Dec. 528.

### I

Igbanugo, Veronica, Oct. 308  
Iso-Ahola, Seppo, Mar. 62.

### J

Jackson, Andrew S., Oct. 385, Dec. 491, 546.  
Johnson, James, Mar. 88.

**K**

Katch, Victor L., May 153, 218.  
Kearney, Jay T., Oct. 322.  
Kermond, John, Mar. 71.  
King, Harry A., Dec. 552.  
Konz, Stephan, Mar. 71.

**L**

Landers, Daniel M., Mar. 53, Dec. 475.  
Lardner, Thomas J., May 175.  
Laub, Jan, Dec. 399.  
Lerch, Harold A., Mar. 91, Dec. 484.  
Lewko, John H., May 146.  
Locke, Lawrence F., May 162.  
Londeree, Ben R., Mar. 95.  
Luedtke, David, Oct. 381.

**M**

Marisi, Dan Q., May 109.  
Marlowe, Mike, Dec. 484.  
Massengale, John D., May 162.  
McClure, James, Dec. 460.  
McCreary, Leslie, Oct. 301.  
McLaughlin, Thomas M., May 175.  
Milner, Keith, Oct. 269.  
Moffatt, Robert J., Oct. 363.  
Montgomery, David, Dec. 406.  
Morgan, William P., Dec. 512.  
Morrow, James R. Jr., Oct. 385, Dec. 491.  
Mowbray, Kathy W., May 114.

**N**

Nelson, Jack K., Oct. 317.  
Noland, Melody, Oct. 322.  
Norton, Cheryl, Mar. 44.

**O**

Obermeier, George E., Dec. 475.

**P**

Park, Roberta J., Dec. 498.  
Parkhouse, Bonnie L., May 228.

Pease, Dale, May 206.  
Picado, Marta E., May 240.  
Pollock, Michael L., Dec. 546.  
Purvis, Jamie W., Dec. 442, 512.

**R**

Rarick, G. Lawrence, Dec. 421.  
Rikli, Roberta, Oct. 329.

**S**

Sady, Stanley, May 218.  
Sage, George H., May 190.  
Scanlan, Tara, Dec. 520.  
Scheer, John K., Dec. 399.  
Schroeder, Richard, Mar. 85.  
Shapiro, Robert, May 197.  
Sharkey, Robert, Dec. 460.  
Siegel, Donald, Mar. 88.  
Singer, Robert N., May 206.  
Skrinar, Gary S., Oct. 335.  
Smith, Ronald E., Dec. 528.  
Smoll, Frank L., Dec. 528.  
Snyder, Eldon E., Oct. 342.  
Spreitzer, Elmer, Oct. 342.  
Stamford, Bryant A., Oct. 351, 363.  
Stewart, Kerry, Mar. 44.  
Stoner, Lela June, Oct. 381.

**T**

Trinidad, America, Mar. 44.

**W**

Welch, Paula D., Mar. 91, Dec. 484.  
Weltman, Arthur, May 153, 218, Oct.  
351, 363.  
Widmeyer, W. Neil, Oct. 372.  
Williams, Robert H., May 135.  
Wilson, Barry D., Oct. 255.

**Z**

Zapiec, Chuck, Dec. 406.

### III. TOPIC INDEX

Each listing is followed by the month and the initial page number(s) of the article(s) in which the subject is discussed.

#### A

aerobic dancing, energy cost of, Oct. 308  
aerobic power, and attraction to activity, Oct. 285; in untrained females, Mar. 20  
age, relationship to distance running performance, Dec. 491  
anaerobic threshold during cycling, Oct. 351  
anxiety, influence of testing on, Dec. 512  
apparatus, for testing coincidence-anticipation, May 240  
athletes, female, socialization of, Oct. 343  
athletics, influence on educational attainment, Dec. 475  
athletic status, Mar. 28  
attributions, causal, Mar. 62; self versus team, Oct. 260

#### B

ball games, Mar. 91  
ball velocity, in tennis, Oct. 260  
behavioral characteristics, and recreation preferences, May 135  
body composition (female gymnasts), Mar. 38  
body mass, relationship to distance running performance, Dec. 491

#### C

cameras, use in event marking, Oct. 381  
cardiovascular responses during cycling, Oct. 351  
cinematography, May 197; Dec. 542  
coaches, role conflicts, May 162  
coaching behavior, Mar. 5; Dec. 528  
coach-player relationships, Dec. 528  
coincidence-anticipation, May 240  
competition, and trait anxiety, Dec. 520  
cycling, one- vs. two legged, Oct. 351, 363

#### D

dehydration, thermal, effect on  $\dot{V}O_2$ , Mar. 95  
depth perception measure, May 237  
drinks, athletic, May 119

#### E

educational attainment, influence of athletics on, Dec. 475  
elementary students, and physical activity, Dec. 460  
emotionally disturbed boys, Dec. 484  
endurance, and occluding tension levels, Oct. 301; effects of motivation on testing, Oct. 317; performance (girls), Mar. 44  
energy cost, of aerobic dancing, Oct. 308  
event marking, procedure for, Oct. 381  
exercise, effect on  $\dot{V}O_2$ , Mar. 95; effects of prior on  $\dot{V}O_2$  max, Oct. 363; endurance, Mar. 12; responses of women to specific and general, Oct. 322; short-term supra-maximal, May 153

#### F

family, characteristics in handicapped children, Dec. 421; effect on sport socialization, May 146  
fatigue, muscular, Mar. 12  
female athletes, and iron supplementation May 114  
film analyzer and digitizer, Dec. 542  
fitness, May 218

#### G

games analysis intervention, Dec. 484  
gastric emptying rates, May 119  
golf, Oct. 335  
golfer's groove, Oct. 335  
gymnastics, Mar. 38; judging, Dec. 399

#### H

handicapped children, Dec. 421  
heart rate response, in squash players, Dec. 406  
hemoglobin levels, May 114  
history, of physical education, Dec. 498; of sports, Mar. 91  
hydrostatic weighing, Mar. 85

**I**

iron supplementation, May 114

**J**

jogging in water, metabolic and circulatory responses to, Dec. 442  
joint forces, May 175  
judging gymnastics, Dec. 399

**K**

kicking, Mar. 71  
knee, rotational strength and flexibility of following PAT, Dec. 413

**L**

lactic acid concentration, in squash players, Dec. 406  
latin square changeover design, May 125  
leadership qualities, Oct. 269  
learning strategies, May 206  
location and distance cues in motor memory, Oct. 293

**M**

marathon time, predicted, Dec. 450  
metabolic acidosis (anaerobic threshold), May 218  
morphological factors and endurance, Mar. 44  
motivation, in endurance testing, Oct. 317  
motor learning, retention of, Dec. 437  
motor memory, short term, Oct. 293  
motor performance, Mar. 53, Mar. 62; of volunteers vs. randomly selected subjects, Oct. 329  
motor skill learning, May 190  
motor task learning, transfer, and retention, May 206  
motor traits, gross, in handicapped children, Dec. 421  
muscle, skeletal, fiber characteristics, Oct. 278  
muscular torques, May 175  
music and rhythm, effect on physical performance, May 109

**O**

observer bias, Mar. 53  
oxygen uptake, Oct. 363

**P**

parallel squat, May 175  
perception of success, Mar. 62

performance outcome, prediction of, Oct. 372  
physical ability, and attraction to activity, Oct. 285  
physical activity, attraction to, Oct. 285; of elementary students, voluntary, Dec. 460  
physical characteristics of women volleyball players, Oct. 385  
physical education departments, May 228; Oct. 269  
physical performance, effect of music on, May 109  
physiological factors and endurance, Mar. 44  
player-coach relationships, Dec. 528  
powerlifters, May 175  
pull-up test, modified, Mar. 80  
punt kicking, Mar. 71

**R**

recovery, active vs. passive, May 133  
recreation preferences, May 135  
reliability, May 237; of an isokinetic movement, Mar. 88; of skinfold measurements, Dec. 546  
research design, May 125  
research paradigm, May 228  
role conflict, May 162  
running, Dec. 450; distance, Dec. 491

**S**

sample surveys, Dec. 552  
sex differences, in distance running, Dec. 491; in endurance and critical occluding tension levels, Oct. 301; in physical performance, May 109; in sport socialization, May 146; in values, Mar. 5; of PE department heads, Oct. 269  
sex integration, of PE departments, May 228  
shot-putters, Oct. 278  
skinfold measurements, Dec. 546  
socialization, female, Oct. 342; via interscholastic athletics, Dec. 475  
somatotypes (female gymnasts), Mar. 38  
speed practice, progressive, May 190  
"spot reduction" hypothesis, Oct. 322  
sport, prediction of performance outcome in, Oct. 372; socialization of children, May 146  
sports participation, and occupational success, Mar. 28  
squash, Dec. 406  
statistical theory, Dec. 552  
step techniques, Dec. 430  
surveys, of small populations, Dec. 552



## T

teacher, role conflicts, May 162  
teaching behavior, Mar. 5  
team, sociology of, Oct. 260, 372  
tennis racket, effects on ball velocity, Oct.  
255  
tension levels, occluding, Oct. 301  
testing, Mar. 80; endurance, Oct. 317;  
maximal, effects on anxiety and work  
capacity, Dec. 512  
tibial rotation, Dec. 413  
training mileage, relationship to marathon  
time, Dec. 450  
trait-anxiety, and competition, Dec. 520

## V

values, in secondary school PE classes and  
athletic teams, Mar. 5  
volleyball, Dec. 430; women, Oct. 385  
volunteers, performance scores of, vs. ran-  
domly selected subjects, Oct. 329

## W

walking in water, metabolic and circulatory  
responses to, Dec. 442  
work capacity, influence of testing on,  
Dec. 512

## STATEMENT OF OWNERSHIP—RESEARCH QUARTERLY

STATEMENT REQUIRED BY THE ACT OF OCTOBER 23, 1962; SECTION 4369, TITLE 39, UNITED STATES CODE SHOWING THE OWNERSHIP, MANAGEMENT, AND CIRCULATION OF THE RESEARCH QUARTERLY, published four times a year: March, May, October, December. Published at Lancaster Press, Inc., Prince & Lemon Sts., Lancaster, Pa. 17604. The general business offices of the publisher are located at 1201 16th St., N.W., Washington, D.C. 20036.

The names and addresses of the publisher and managing editor are as follows: Publisher, American Alliance for Health, Physical Education, and Recreation, 1201 16th St., N.W., Washington, D.C. 20036; Managing Editor, Nancy Rosenberg, AAHPER, 1201 16th St., N.W., Washington, D.C. 20036.

The owner is: American Alliance for Health, Physical Education, and Recreation, 1201 16th St., N.W., Washington, D.C. 20036. Names and addresses of stockholders owning or holding 1 percent or more of total amount of stock: none. Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: none.

Of the membership dues (\$30.00), \$5.00 covers subscription to the Research Quarterly.

The average number of copies each issue during the preceding 12 months are: (A) Total number copies printed (net press run): 12,650; (B) Paid circulation: (1) sales through dealers and carriers, street vendors and counter sales: none; (2) mail subscriptions: 11,500; (C) Total paid circulation: 11,500; (D) Free distribution (including samples) by mail, carriers, or by other means: 1,000; (E) Total distribution: 12,500. The number of copies, single issue nearest to filing date: (A) Total number copies printed (net press run): 12,000; (B) Paid circulation: (1) sales through dealers and carriers, street vendors, and counter sales: none; (2) mail subscriptions: 11,000; (C) Total paid circulation: 11,000; (D) Free distribution (including samples) by mail, carrier, or other means: 800; (E) Total distribution: 11,800.

I certify that the statements made by me above are correct and complete.

(Signed) Nancy Rosenberg  
Managing Editor